

COMPOSITIONS AND METHODS FOR ENHANCING
THE NUTRITIONAL VALUE OF PROTEINS

ABSTRACT OF THE DISCLOSURE

5 Methods and compositions for altering amino acid composition of a protein of
interest are provided, particularly proteins whose three-dimensional structure is unknown.
The method comprises creating interacting molecules to the native protein and selecting
for engineered proteins which retain the native conformation by antibody binding. In this
manner, the levels of essential amino acids in a protein can be increased yet the biological
10 activity of the protein maintained.